

Name \_\_\_\_\_

Date \_\_\_\_\_

## Lesson 1: Modeling Linear Relationships

### Exit Ticket

A rental car company offers a rental package for a mid-size car. The cost is comprised of a fixed \$30 administrative fee for the cleaning and maintenance of the car plus a rental cost of \$35 per day.

1. Using  $x$  for the number of days and  $y$  for the total cost in dollars, construct a function to model the relationship between the number of days and the total cost of renting a mid-size car.
  
  
  
  
  
  
  
  
  
  
2. The same company is advertising a deal on compact car rentals. The linear function  $y = 30x + 15$  can be used to model the relationship between the number of days ( $x$ ) and the total cost ( $y$ ) of renting a compact car.
  - a. What is the fixed administrative fee?
  
  
  
  
  
  
  
  
  
  
  - b. What is the rental cost per day?